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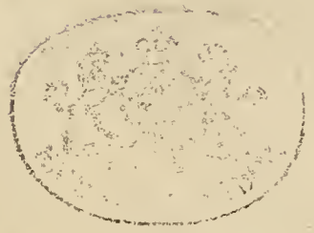
Yorkshire Philosophical Society,

ANNUAL REPORT

FOR

MDCCCXXVII.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society,

FOR

MDCCCXXVII.

YORK:

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1828.

NATURAL HISTORY

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Rev. W. V. Vernon, F.R.S.

SECRETARY:

William Wright.

REPORT,

PRESENTED BY THE COUNCIL TO THE ANNUAL MEETING,

FEBRUARY THE FIFTH,

M.DCCC.XXVIII.

The Council have had occasion, on former anniversaries, to congratulate the Society on the retrospect of the preceding year; but never, since the commencement of the Institution, have they been enabled to render so prosperous an account of its progress, as in the Report which they have now the honour of submitting to the Meeting.

To complete the design which the Society originally contemplated, it has always been felt by its members to be essentially requisite, that an edifice should be erected of such a character and such dimensions, as might befit a County Museum: and the Council have first to call the attention of the Meeting, to the proceedings by which they have advanced towards the accomplishment of this great object.

The possibility of accomplishing it in a satisfactory manner, appeared to them, from the first, to rest upon the success of the

plan for occupying the magnificent and spacious Site, which offered itself upon the platform of the Manor Shore. But the only prospect of obtaining so valuable an acquisition, lay in the hope of finding a disinterested desire, on the part both of the Crown and of its Lessee, to promote an object of public utility. The Society's request having been considered in that light by Lord Grantham, the Council experienced no difficulty in obtaining from his Lordship, a resignation of his interest in this ancient tenure of his family; and the Treasury also immediately took into its most favourable consideration the petition of the Society, for a grant of the Ruins of St. Mary's Abbey, and three acres of land on the Manor Shore.

The legal impediments which, in 1826, prevented the Crown from complying with the prayer of that petition, were stated in the last Report; but the attention of the Chancellor of the Exchequer [1] having been called to the subject, he was of opinion that they were impediments which ought not to subsist; and directions were given for drawing up a Bill, to extend to the Country at large the provisions of the Act, which empowered the Crown to make grants of land to Institutions within the Metropolis. The political circumstances which interrupted the proceedings of Parliament, during the spring of 1827, barely allowed time, in the ensuing session, for transacting the public business: nevertheless this Bill, rapidly forwarded by the exertions of the friends to the Society, passed into a law, which has not only enabled the Crown to comply with the

[1] Viscount Goderich.

present application, but has conferred a general benefit, by allowing similar favours to be dispensed to Scientific and Charitable Institutions, in every part of the kingdom.

As soon as the Bill had passed, a warrant was issued by the Treasury, for making out the Grant; and the Surveyor for the Crown received directions to assign to the Society, the ground for which it had applied. The draft of the Grant has been since transmitted from the Land Revenue Office; the best opinions have been taken on the Society's part, upon the particulars of the conveyance; it has again passed through the hands of the legal advisers of the Crown, and now only wants the Sign Manual for its final completion.[1]

On being informed that the warrant for the Grant was signed, the Subcommittee to whose care the concerns of the Building had been entrusted, anxious to obtain the opinion of the County on the measures which they proposed to adopt, summoned a meeting of the General Committee, and submitted to them the plans and estimates which they had procured. The Report which was made on that occasion has been printed;[2] and it may be sufficient to refer to it, for an explanation of the principles on which the new Museum has been designed. These principles were acceded to by the General Committee; and the design was adopted. Unanimous approbation was bestowed upon the simple and noble elevation proposed for the Front, and the spacious and commodious arrangements planned for the Interior of the Building.

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[1] Since the Annual Meeting, the Sign Manual has been obtained.

[2] See Appendix, page 31.

In the front, of which Mr. Wilkins has furnished not only the general elevation, but the working drawings, no alteration has since been made, with the exception of a few corrections by himself; but the plan has been considerably improved, especially by an enlargement of the Zoological Museum, and the addition of a basement floor. It may afford some idea of the extent of accommodation which will be afforded, to state that besides a Library, a Lecture Room, a Laboratory of adequate dimensions, and eight apartments of inferior size, the building will contain rooms for the use of the Museum the aggregate length of which will be not less than three hundred feet, lighted for the most part by sky-lights, so that more than five hundred feet of cases may be disposed longitudinally against the walls alone.

The drawings and specifications having been prepared, contracts for the work were immediately entered into by public competition, and the contractors were bound to cover in the entire building by the beginning of October, 1828, to finish the Lecture-Room and principal part of the Museum by the 1st of January, 1829, and perfectly to complete the whole by the 1st of May, in the same year. On the 24th of October, the Council had the high satisfaction of seeing the First Stone of the Yorkshire Museum laid by the earliest Patron of the Society:[1] and at the present moment, the basement being finished, the ground floor is about to be commenced.

It appears from the minutes of the Subcommittee, that the expenses for which they have contracted, and those for which

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[1] See Appendix, page 35, for an account of the proceedings.

they have paid, amount in the whole to Six thousand five hundred pounds: and this sum includes the cost of the principal fence wall, and the entrance lodge, as well as the completion of the Museum. It is impossible, however, to foresee exactly the whole expenditure which grows out of an undertaking of this kind; and, in the present instance, it certainly ought not to be calculated, (if the provision for cases and other furniture, be added,) as less than Eight thousand pounds. The actual amount of the Subscriptions, 6,500*l.* is not yet sufficient to meet this demand; but the Council are of opinion that the Subcommittee have not presumed too far upon the increase still to be expected in the number of Subscribers. They trust that there are contributions yet in reserve; and they believe that there are many persons in the County, and especially among the Members of the Society, who will come forward to supply the deficiency, when they collect from this Report how far the Museum is advanced, and are informed that the time is come, when their assistance is wanted to consummate a work, of which the execution is actually commenced.

It will be gratifying to the Meeting to learn, that the Lord Mayor and Corporation of York, have testified to the Society their sense of the credit which will redound to the City, from a work of so much general interest, and so much local ornament and advantage; and that, in addition to a liberal subscription, they have granted a carriage entrance into the Manor Shore, by which it is rendered much more accessible; and allowed the Lodge to be built on their premises, without requiring any rent; they have admitted the Society also to

occupy, on fixed and moderate terms, the ground contiguous to the ramparts; and have thus given it the ancient City walls for one of the boundaries of its Garden.

Enjoying so large a share of public favour, and promising so many new advantages, the Institution has increased the number of its Members, in a proportion which almost doubles the admissions of the preceding twelvemonth; and through the funds supplied by these means, the Council have been enabled to relieve the accounts of more than half the debt which had been formerly contracted, so that the balance against the Society is reduced to thirty-four pounds. But the fees of admission paid by new Members, are an accidental and precarious source of income; and the Council request the attention of the Meeting to the fact, that without this assistance the expenditure of the year would have exceeded the annual subscriptions by seventeen pounds, even though a severe economy has been observed, and though but half the salary of that highly valued and indispensable Officer of the Institution, the Keeper of the Museum, has been paid from the public fund.[1] They would also remind the Meeting, that the increased expenses of the new establishment, must be expected to be more than a counterbalance for the reduction of rent; and lastly, that the maintenance of a Scientific Garden, which is one of the conditions of the royal grant, must be expected, on however

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[1] The remainder of the salary has been hitherto paid by private subscription. The same means have been resorted to, for the purchase of zoological specimens and books of Natural History; but the important object of forming a good Library for scientific reference, can only be accomplished by an increase of the general funds: at present, the works of this description which the Society possesses, are insufficient for the proper use and illustration of its Collections.

limited a scale it may be conducted, to require a considerable expenditure. On the other hand, there is no probability of such an accession of Members as will supply an income, on the present terms of the Subscription, adequate to these demands; and the necessary conclusion is, that if the Institution is to be supported, the Annual Subscriptions must be raised. Upon whatever principle that support has been hitherto given, upon the same it ought now to be increased. The new garden and the extended buildings offer additional advantages of every kind, the value of which it cannot be doubted that the Members of the Society will duly appreciate, and to the maintenance of which, it may be presumed, they will readily contribute. As, however, to propositions for making changes of this description, the utmost publicity should be given, the Council have not thought it proper to submit any measure to the Society, till after they have made known their views; but it is probable, that in the course of the summer, a Special Meeting of all the Subscribing Members will be summoned, to take the subject into consideration.

Among the advantages which the Society will derive from its future accommodations, a convenient LECTURE-ROOM is not one of the least. It appears from the Treasurer's account, that the receipts and expenses were nearly balanced upon the two courses of Lectures delivered in 1827, on the Natural History of the Invertebral Animals,[1] and on the Magnetical Phenomena of the Galvanic circuit and of Percussion:[2] and yet the services of the Lecturer who undertook the latter of these subjects were gratuitous; and both the courses were in

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[1] By the Keeper of the Museum. [2] By the Rev. W. Scoresby, F.R.S.

a high degree interesting and instructive. Such Lectures would have more numerous audiences, if they could be more conveniently heard. In the mean time, the Council have not felt justified in making any engagement for the current year, except so far as to request the Keeper of the Museum to prepare a course of Lectures on the Aquatic Animals of this neighbourhood, to be delivered either in the ensuing or the succeeding summer.

It is one of the principal objects of the Society to encourage a taste for Natural History; and it has always proposed to effect this, both by means of Lectures on the various divisions of Nature, and by COLLECTIONS in its Museum, without which lectures of this description can scarcely be given. The value of such collections is not perhaps in general sufficiently understood; and the Naturalist by whom they are formed, is sometimes suspected of claiming the dignity of a science, for pursuits little higher than the amusements of children. If the object of a collector be no more than to accumulate and to display, he is indeed very idly employed; but if his object be to acquire or to diffuse a more perfect knowledge of the works of creation, there cannot be a more rational or a more noble pursuit. To investigate the wisdom of Nature, is an employment worthy of the most exalted understanding, whether that wisdom be displayed in the configuration of a planet, or in the structure of a butterfly's wing. There are some, however, who imagine that nothing is to be learned from a Museum except a catalogue of names; but this, even were the statement true, is surely an unreasonable complaint. If the volume of Nature is worthy of being read, its vocabulary must

deserve to be studied. No one can learn the names of these objects, without acquiring, at the same time, some knowledge of their properties; and no one can discuss the properties without possessing some knowledge of the names.

The Society's Collections have been increased to a very gratifying extent, by the contributions of the last year, especially in those parts of Natural History in which the Museum was most defective. It appears from the reports of the Curators, that the zoological specimens which have been added, amount to no less than One thousand, eight hundred and fifty, and the botanical to upwards of Four thousand.

Among the additions in Zoology, should be noticed the collection in several departments of the science from South America and the West Indies,[1] the specimens of Ornithorynchus from New South Wales,[2] the Arctic Birds, including the Iceland Gull, given to the Society by the Naturalist of Zetland[3] by whom that bird was first described, the Crabs from Brazil,[4] the Corallines from the Yorkshire coast,[5] the donation of two hundred valuable foreign Shells,[6] and above all, the munificent entomological contribution of one thousand five hundred and forty-four British Insects, chiefly of the order Coleoptera, presented by a distinguished Naturalist of this County.[7]

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[1] Presented by Captain O. V. Vernon, R.N. [2] By W. Marshall, Esq. F.G.S.
[3] Lawrence Edmondstone, Esq. M.W.S.
[4] By the Literary and Philosophical Society of Leeds. [5] By Mrs. G. Bulmer.
[6] By Mrs. M. Dixon. [7] The Rev. James Dalton, F.L.S.

The same liberal donor has augmented the Botanical collection with a choice and extensive Herbarium, rich in rare plants, and containing 2300 specimens;—and a second Herbarium of similar merit, well illustrated by characteristic varieties, and containing 1780 specimens, having been given to the Society by one of its Members,[1] these important contributions, when united and arranged, will form, with those which had been before received, an instructive series of no common excellence and extent.

In the Geological department of Science, many of the specimens which have been presented possess considerable interest. Among those received from foreign countries, the most deserving of notice are the Fossil Shells from Iceland, differing little from the recent Venus Islandica, except in so far as they are entirely converted into spar; the Shells from Barbuda, identical with those now inhabiting the West Indian seas, but imbedded in a calcareous rock which occupies the centre of the island;[2] and the specimens from Bohemia,[3] of Plastic Clay indurated into Porcelain Jasper, by the combustion, as it should seem, of the subjacent bed. The extensive collection from the rocks of Scotland, with which the Society had before been favoured, has been again augmented;[4] and the Geology of the Orkneys has been illustrated by a series of specimens,[5] explanatory of a Memoir in which the strata were described. The Mountain Lime-

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[1] W. Middleton, Esq. [2] Presented by Capt. O. V. Vernon.
[3] Presented by the Directors of the Museum at Prague.
[4] By H. Witham, Esq. M.W.S. [5] Presented by the Rev. C. Clouston.

stone of Northumberland has furnished the Museum with some new and very remarkable exhibitions of Fossil wood,[1] in which the fasciculated texture of the monocotyledonous plants is beautifully preserved; but which show also some indications of a radiated structure, such as belongs to the dicotyledonous tribes. To the Yorkshire Collection, has been added a sandstone cast of a gigantic Lepidodendron from the coal-field near Wakefield;[2] and the impressions of several new kinds of cycadiform plants and ferns, from the strata near Scarborough, (in some of which the fructification may be discerned,) have been presented by an Honorary Member[3] of the Society, who has often contributed to its Museum. Of these plants the Council have procured duplicates, and have transmitted a well defined series to M. Adolphe Brongniart, conceiving that they could not render a more acceptable service to Geological Botany, than by assisting the researches of that accurate and skilful observer.

To the MINERALOGICAL Cabinet has been added an undescribed variety of the mammillary Carbonate of Zinc,[4] from Keswick, the colour of which is a bright sulphur yellow, and which has been found, upon analysis, to contain Manganese; and some specimens of stalactitic Chalcedony in whinstone have been presented,[5] from the basaltic dyke which crosses the northern part of this county. A valuable contribution has been made to the ores of Tin[6]; but it is to be regretted, that a large proportion of the Cornish minerals

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[1] Presented by the Rev. C. V. Vernon. [2] Presented by the Rev. S. Sharp.
[3] Mr. Bean. [4] Presented by Mr. Copsie, analysed by the President.
[5] By the Rev. L. V. Vernon. [6] By the Rev. E. Wood.

is still wanting, as well as of those from South America and Siberia. The Collection would be greatly improved by donations of the metallic ores; not being at present rich in any of these, and poor in the ores of Manganese, Titanium, Cobalt, and Silver.

Many contributions are lost to Museums, because it is not known what are the DESIDERATA to be supplied. It may be useful, therefore, to point out, in other parts also of the Collection, what the Society wants, as well as what it has received.

The Geological Catalogues contain the history of upwards of eight thousand specimens, by which most of the British Strata are illustrated; but additional fossils are much to be desired; from the tertiary strata of Norfolk and Suffolk, of Hampshire and the Isle of Wight, and from the Oolite, Lias, and Mountain Limestone of Bath and Bristol. In the Yorkshire series, the fossils most needed are from the Lias of Whitby, and the Mountain Limestone of Craven. In the organized fossils of foreign countries, and in those of Scotland and Ireland, the collection is almost entirely defective.

The most important desiderata in Zoology are, among the Zoophytic Animals, the Flexible Corallines of the Mediterranean and Tropical waters; and very few specimens of the Radiated, Vermiform, or Crustaceous classes yet belong to the Museum. Of Foreign Shells its drawers contain but 350 species, and of British not more than 160. The attention of Naturalists has been little turned to the two classes which

rank next to these; and the Society possesses only 23 specimens of Fishes, and 28 of Reptiles. The number of Birds in its cases amounts to 146, of which 103 are natives of this country; and out of 300 British species, about 60 are thus illustrated.

In reference to some of these objects of Zoological interest, the Council cannot refrain from remarking, that there is a circumstance observable in the Catalogue of Donations, which they should hope to find hereafter of more frequent occurrence. The amusements of the Sportsman and the Angler have, in several instances, contributed to enrich the Museum with useful specimens; and persons not professing much knowledge of Natural History, have thus rendered it an essential service, at no expense to themselves.

In giving a general list of desiderata, it is by no means intended to intimate, that Contributions of another class will not be acceptable; and still less to complain, in any degree, of the support which the Institution has received. It is not surprising, that in a Museum which has been only a few years established, there should be great deficiencies; the wonder is, that it should already, in some degree, embrace every part of the range of natural science; that it should already number in its catalogues TWENTY THOUSAND specimens collected from the land and the water. The accumulation, in so short a time, of such a multitude of the materials of instruction, is highly honourable both to the Society and to the County: it fully answers the sanguine hopes with

which the Yorkshire Museum was founded, and justifies the very liberal patronage which it has received.

Whilst the collections of Natural History have been thus enriched, there have been presented to the LIBRARY Fifty-seven Volumes, with the numbers hitherto published of M. Audubon's splendid work on the birds of America;[1] and to the ANTIQUARIAN Cabinet, one hundred and fifty-five Coins, Medals, and dies. The most interesting of the coins is that of Archbishop Vigmund,[2] on account of its having been found under the foundations of the rampart immediately adjoining Micklegate Bar; thus furnishing some additional evidence as to the age in which that rampart was built. Among the Miscellaneous Antiquities, the large and figured urn,[3] found with human bones in a tumulus near Bishop-Burton, in the East-riding of Yorkshire, is peculiarly curious; as it serves both to elucidate the mode of sepulture practised among our British ancestors, and at the same time, to show the progress which they had made, under their masters the Romans, in some of the arts of life.

But on nothing, connected with Antiquarian Research, has the Society so much reason to congratulate itself, as on having been the means of uncovering to view, the foundations of the ABBEY OF ST. MARY; of bringing again to light, many exquisite specimens of sculpture which once adorned that magnificent fabric, and of enabling the antiquary to correct

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[1] Subscribed for by several members of the Society.

[2] Presented by Mr. Bleckly. [3] Presented by Dr. Hull, of Beverley.

or extend his observations on the arrangements of monastic Institutions.

The remains of the Abbey Church have long been admired, as exhibiting one of the most beautiful examples of Gothic Architecture in its purest style; but it was little suspected that, under the elevated platform of the Manor Shore, had been buried, for two centuries, the entire ground plan of the Monastery belonging to that Church; that there existed in that concealment, unmoved and undisturbed from their place, walls and columns, and the bases of buttresses and gateways; here, the steps of a staircase and the glazed tiles of a pavement; and there, a spacious fire-place still standing, with its sculptured corbels; in one place, the richly carved pillars and circular fragments of a Norman arch, and in another, a knot or a keystone of still more elaborate workmanship, from some vaulted roof of a later date.

These discoveries having been first made in excavating the foundations of the new Museum, they were further prosecuted by a private subscription; and care was taken on the part of the Society, that, as they proceeded, a plan should be drawn, and accurate admeasurements should be made, of every part of the remains. The finished character of the architecture, exhibiting some very elegant specimens of the style in use during the early part of the fourteenth century, together with some ornamented examples of that which belonged to the more ancient Monastery, founded by William Rufus; the interest, also, attached in other respects, to the long concealed relics and unrecorded plan of so great and powerful an

establishment, induced the Council to consider it as their duty, to provide materials for a DESCRIPTIVE PUBLICATION.

In the mean time, the Society of Antiquaries, unapprised of this design, requested permission to make drawings with the same view; and the Council, considering the great advantages enjoyed by a Metropolitan Institution, for executing such a work, and only desirous that it should be published in the most perfect manner, determined not only to give the permission requested, but to add to it the assistance which was necessary to render the publication complete. They have therefore communicated the various drawings which have been made at the Society's expense; and propose hereafter to resume the excavation, and investigate what still remains to be ascertained.

It was thought reasonable, however, that participating thus largely in the expense, the Society should have a share in the profits to be derived from the undertaking: and it has therefore been agreed, that two hundred copies of the work shall be placed at the disposal of the Council. These copies will be offered to the members of the Society who may desire to subscribe for them, and the fund arising from this source, will be employed in defraying the expenses of excavating the remaining foundations, and repairing the ruins of the Abbey.

The Society is now entrusted, by the gracious confidence of the Crown, with the conservation of these picturesque, but shattered Remains; and the Council have felt it incumbent

upon them to pay immediate attention to the charge. They have already replaced the buttresses, of which the loss endangered the remaining aisle; have secured the arch of the western window, and removed the unsightly materials of later date, with which the beautiful tracery was in some parts encumbered and defaced. They have not thought it in good taste to renovate, but have found it indispensably necessary to repair.

The same feeling which forbids them to be negligent guardians of this inimitable specimen of Ancient Art, influences the whole view in which they regard the Society's present position as a Scientific Establishment; a feeling no longer merely of zeal for the promotion of art and science, but a more serious sense of deep responsibility. The Society has received favours of no inconsiderable magnitude; it has experienced, in no ordinary degree, the munificence of a liberal Government, and the generosity of a public-spirited County. To acquit itself of the obligations which it is under to that liberality, and to keep faith with that public spirit, is a duty with which its Council is strongly impressed. When they look at the Site on which the Yorkshire Museum is beginning to rise; when they count the Subscriptions, collected for its erection, and consider that this sum has been raised upon no transferable, and, in great part, upon no proximate and tangible interest—they cannot indeed repress their exultation, and are astonished at their own success. But at the same time, it is impossible for them to contemplate, without some degree of solicitude, the Debt of Honour which the Society has contracted, and the expectations which it is called upon to fulfil.

The Meeting, however, will judge from the Report which has now been made, and from the Documents which the Council has the honour to present,[1] whether there is not just ground to hope, that the Public Patronage has been well bestowed. The treasures of Natural History which it appears have been already collected, the ample list of donations recorded at every meeting, the specimens this day produced of laborious and skilful industry in registering the contents of the Museum,[2] the Scientific Communications which have been read,[3] and the Papers which have been published[4] during the year, justify a reasonable confidence, that when the Society shall have built a splendid Museum, it will know the manner in which such an Institution should be employed, and feel the spirit with which it ought to be maintained.

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[1] See Appendix.

[2] A descriptive Catalogue of the English Coins in the Society's possession, recently completed by the Curator of Antiquities; and a specimen of a systematic Catalogue of the entire Collection of Natural History, by the Keeper of the Museum.

[3] See Appendix, page 45.

[4] See *Philosophical Magazine and Annals of Philosophy, for* 1827 :—Mr. E. S. George's Analysis of a Sulphuretted Water, from the northern part of the Yorkshire Coal-field: vol. i. p. 245.—Rev. W. V. Vernon on the Orange Phosphate of Lead: ibid. p. 321.—Mr. William Smith on retaining water in rocks for Summer use: ibid. p. 415.—Mr. J. Phillips on the Direction of the Diluvial Currents in Yorkshire: vol. ii. p. 138.

THE TREASURER'S ACCOUNT FOR 1827.

Dr.	£.	s.	d.
Received Admission money from 16 new members	80	0	0
Received Annual Subscriptions for 1827, from 150 members	150	0	0
Received Arrears of ditto for previous years	12	0	0
Received for tickets to Mr. Phillips's Lectures	36	7	6
Received for ditto to Mr. Scoresby's Lectures	18	8	6
Donation from the Duke of St. Albans	5	10	0
Balance due to the Treasurer at the close of 1827	84	16	11
	£387	2	11

Cr.				£.	s.	d.
Balance due to the Treasurer at the close of 1826				101	4	4
Paid for purchase and preparation of Specimens				18	16	10
Expenses of Lectures :						
Mr. Phillips' Salary	£30	0	0	55	19	4
Contingent expenses	16	5	0			
Expenses of Mr. Scoresby's Lectures	9	14	4			
Books and binding				25	16	0
Printing and advertising				30	6	2
Stationery				4	3	10
Cases and Furniture				41	3	1
Rent, Salaries, and Wages :						
Rent	£36	15	0	85	17	0
Towards salary of Keeper of the Museum	30	0	0			
Servant's wages	19	2	0			
Incidents				23	16	4
				£387	2	11

Balance due to the Treasurer	£84	16	11
Deduct arrears due from members	51	0	0
Balance against the Society	£33	16	11

APPENDIX TO THE REPORT:

CONTAINING

PROCEEDINGS RELATIVE TO THE NEW MUSEUM,

SUBSCRIPTIONS TO THE BUILDING FUND,

SCIENTIFIC COMMUNICATIONS,

DONATIONS TO THE MUSEUM AND LIBRARY,

AND

LIST OF MEMBERS.

YORKSHIRE MUSEUM.

At a General Meeting of the Building Committee, held at the Rooms of the Yorkshire Philosophical Society, York, July 31st, 1827 :

PRESENT,

His Grace the Archbishop, in the chair ;

Hon. and Rev. H. Howard
Hon. M. Langley
Sir G. Cayley, Bart.
Sir. J. V. B. Johnstone, Bart.
Sir J. Lowther, Bart. M.P.
R. F. Wilson, Esq. M.P.
G. L. Thompson, Esq. M.P.
The Dean of York
Archdeacon Eyre
Archdeacon Markham
James Atkinson, Esq.
John Bell, Esq.
Richard Bethell, Esq.
Rev. R. Croft
Benj. Dealtry, Esq.
Rev. W. H. Dixon
Rev. J. Graham
George Hartley, Esq.
W. Marshall, Esq.
Henry Preston, Esq.
Rev. T. C. R. Read
E. S. Strangwayes, Esq.
Eust. Strickland, Esq.
Anthony Thorpe, Esq.
Rev. W. V. Vernon
Rev. C. Wellbeloved

Dr. Goldie,
Mr. W. Gray, jun. } Secretaries.

The Report of the Subcommittee having been read ; and the Plan and Elevation of the intended Building, designed by William Wilkins, Esq. R.A. and F.S.A. having been submitted to the Meeting :—

RESOLVED UNANIMOUSLY,

That the Report now read, and the accompanying Plan and Elevation be adopted.

That the Report be printed for distribution.

That the Details of the execution of the Objects contained in the Report, be wholly referred to the Subcommittee.

That the General Committee recommend that an APPEAL be made to the COUNTY AT LARGE, for an increase of the Subscription, towards carrying into effect the excellent Plan brought forward by the Subcommittee, and now adopted, and about to be carried into immediate execution.

That the Subcommittee be instructed to request Payment of all Subscriptions which remain unpaid.

That the thanks of this Meeting be given to the Subcommittee, for their zealous Exertions in promoting the Objects of their appointment.

E. EBOR. Chairman.

His Grace the Archbishop having left the Chair, which was taken by Sir George Cayley, Bart.

RESOLVED UNANIMOUSLY,

That the thanks of the Meeting be given to His Grace the Archbishop, for his kindness in taking the Chair, and his attention to the business of the Meeting.

GEO. CAYLEY.

REPORT OF THE SUBCOMMITTEE.

The Building Subcommittee of the Yorkshire Museum, in submitting the measures which they have to propose, to the judgment of the General Committee, beg leave to make a short statement of their proceedings and views.

As soon as it was intimated to the Subcommittee, that the Act was passed which removed the legal obstacle to the expected grant of Crown Land on the Manor Shore, means were immediately adopted by them to prepare a Design and Estimate, to be laid before the General Committee, whenever the warrant for the Grant should be issued by the Treasury.

There were two methods of effecting this object; by proposals for plans to several Architects; or, by fixing upon some distinguished individual, and relying on his judgment and taste, so far as respects the Architectural effect. The latter of these methods appeared to the Subcommittee entitled to a decided preference, as being not only less expensive, but more likely to prove satisfactory to the Public. They were of opinion that a Design, accredited by the name of an eminent Master, would come much better recommended, than one resting on the decision of an unprofessional Committee.

The offer therefore of Mr. Wilkins met with a most ready acceptance—that if the Committee would consent to carry into execution a chaste and simple design, he would give a plan and elevation for the Building; and also furnish drawings for the workmen, on condition that the details should be strictly attended to.

That such ought to be the character of the design, there could be no doubt, whatever the style of Architecture might be; but a question existed as to the style which it might be proper to adopt. On the one hand, an opinion was entertained, that Gothic Architecture would be most in conformity with the genius of the place, and with the venerable Ruins contiguous to the new Institution, and entrusted to the care of its Members. On the other hand, a Gothic Museum was represented as an anomaly which it would be impracticable to execute, without at once offending good taste, and sacrificing the convenience of the Institution; and it was remarked, that buildings of very different styles, Classical and Gothic, are seen mingled together in our Universities, with an effect neither incongruous nor unpleasing.

Such a question, it was thought by the Subcommittee, could not be referred to a better judge than Mr. Wilkins; who, whilst he has shown an intimate acquaintance with Grecian Architecture, has been also eminently successful in the Gothic style. Mr. Wilkins's answer was expressed in the following terms: "I am decidedly of opinion that the Architecture should be Grecian: you have such Gothic at York, that any design in the same style must appear trifling." And in a subsequent communication he added: "I have again and again considered what you have stated with regard to the site; and I am the more convinced that, in *every* point of view, the style of Architecture to be adopted in your Museum *must* be Grecian; I cannot reconcile the notion of any other style, either to the locality or the purpose of the building[1]."

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[1] Mr. Chantrey, whose judgment is of high authority on all subjects of taste, made the same objection to a Gothic design, nearly in the same words.

In this judgment the Subcommittee have coincided; and the Design which they now present to the General Committee, will be found to exhibit a Grecian Doric front of about a hundred feet in length.

Mr. Wilkins has observed, that there is very little correct Greek Architecture in the kingdom, and that the correct is not more expensive than that which is otherwise. In the present instance, there is every security that the true proportions of that noble Architecture will be preserved: there is every security that the general effect will be fully obtained, which depends upon the contour of mouldings, and the light and shade arising from a strict attention to the mathematical sections of the ancient Architects; for those sections and proportions have been studied and measured on classical ground, both by the Designer of the Elevation, and by the Architect [1] whom the Subcommittee have invited to superintend the execution of it.

The Architectural front is of a height which will comprise two stories. It is intended to be faced with stone, and is so prolonged as to mask the rest of the Building, which, being but one story high, and lighted by sky-lights, may be completely concealed, in a short time, by plantation; a disposition which, confining the expense of ornament to the front, may, it is hoped, satisfy the public taste, without too great a sacrifice of economical accommodation.

Of the internal plan, which is founded upon one formerly furnished by Mr. Sharp, and adopted with a few alterations by Mr. Wilkins, it is only necessary to observe, that the

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R. H. Sharp, Esq. of York.

space which it affords, is, in the opinion of the Subcommittee, neither more nor less than what the Institution ought to have; and that the arrangement of it is such as will be both commodious and handsome.

But before the sanction of the Committee to this plan and elevation can be asked, it will be requisite to state the expense at which the execution of it has been estimated. It is proposed by the Subcommittee to build by contract; to consider the specifications maturely, and abide by them rigidly; to receive tenders for the work; to require security from the contractors, and to provide for such a vigilant superintendence as may ensure the due performance of the contracts. The estimate now laid before the Meeting, is calculated upon this basis. It is an estimate of a sum, which, in the Architects' judgment, will cover the tenders to be expected at the present prices of materials and labour. Its amount is Five thousand six hundred and fifty pounds; being three hundred pounds more than the funds which have been as yet subscribed.

The Subcommittee are well aware, that it is not advisable to lay out upon the Building the entire Subscription, much less to exceed it: they would greatly desire to have a surplus of one or two thousand pounds, for fencing the three acres of ground which the Crown has granted to the Society, for making the road from the new entrance promised by the Corporation, and for furnishing the Museum; but they trust that such a surplus may yet be obtained, without retrenching from the present plan: they find, on the renewal of their applications to the County for further Subscriptions, additional aid immediately flowing in; and they have formed a confident expectation, from the public interest which

they see awakened to the subject, that a sufficient surplus may be reckoned upon, to meet the extra expenses.

But even if this expectation should be disappointed, by executing the plan in the method which the Subcommittee would recommend, no risk of loss need be incurred. They would propose, if a deficiency of Subscriptions should appear, to defer the contracts for the internal finishing of part of the Museum, and for the interior finishing of part of the upper story in front; by which means the estimate would be considerably diminished.

The Subcommittee are fully sensible of the inconvenience which would result from these retrenchments. It would be a matter of deep regret to them, if the want of funds should unfortunately compel them to leave the Museum incomplete, and the adjoining ground unimproved; but they also feel that it would be highly injurious to the interests and prospects of the Institution, either to contract the present design, or to delay its execution. They are of opinion, that it would be much more detrimental to the objects of the Society, permanently to narrow the foundations of the Building, than to leave some of the apartments, for the present, unfinished. But they confidently hope to be spared even this mortification, and to find the precautions, which they think it expedient to keep in view, rendered unnecessary, by the support which is still to be expected, and which is due from the County of York, to such an Institution as a Yorkshire Museum.

July 30th, 1827.

On Wednesday the 24th of October, 1827, His Grace the Archbishop of York, accompanied by the Right Honourable the Lord Mayor[1], and attended by the President, Council, and Committee, with the resident Architect, laid the First Stone of the Yorkshire Museum, near the north west angle of the intended edifice.

After performing the usual ceremonies, the Archbishop addressed the President in the following words :

"Mr. President, and Gentlemen of the Committee,

"It is with the truest pleasure, that I have now executed the task assigned to me, and have laid the First Stone of your intended Museum.

"I rejoice, indeed, that the moment has at length arrived, when a building for this purpose, worthy of the Yorkshire Philosophical Society, is about to be erected ; a building calculated to contain not only the present, but whatever further treasures of Natural History and of philosophical research, may hereafter be added to the rich and valuable Collection which the Society already possess. And when we recollect that this Institution has existed little more than five years, and may, therefore, in some sense, be regarded as yet only in its infancy ; when we recollect, too, the difficulties of various kinds which impeded its early progress, to say nothing of the doubts which were, at first, pretty generally entertained of its ultimate success ; when all this is considered, we may fairly, I think, congratulate ourselves on the position we this day assume, assembled as we are for such a purpose as the present.

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[1] William Hutchinson Hearon, Esq.

"But the native generosity of Yorkshiremen, their love of knowledge, and, above all, that laudable jealousy which never suffers them to come behind other counties in promoting and fostering useful Institutions of every kind—the union of all these feelings supplied the means of erecting a Museum of such a character, as will, I confidently trust, add another proud ornament to the many which at present distinguish the City of York, and prove at the same time, an honourable and lasting monument of the zeal and exertions of those who, under the blessing of God, have been mainly instrumental in the accomplishment of so desirable an object. I will add but one more word—FLOREAT!"

The PRESIDENT replied as follows:

"MY LORD ARCHBISHOP,

"We are sufficiently reminded by the Ruins amongst which we stand, the mingled ruins of two great preceding structures, that the Building which we are now about to raise, though rising under the most favourable auspices, honoured with the highest Patronage, and dedicated to the most useful objects, cannot be expected to last for ever.

"I am directed, my Lord, by the Building Committee of the Yorkshire Philosophical Society, to request, that your Grace would be pleased to deposit in the new Foundations, these Records of the Society, being the Reports of the Institution from its first commencement in 1823; that when, after benefiting, as we trust in Providence it may, many successive generations, this Building shall undergo the common fate of all the works of man, an honourable memorial of these times may hereafter perhaps be found, in a more advanced age of the world, by which it may appear, that however little, in this infancy of Art and Science, we may have known, we knew at least the value of knowledge, and did our best, my Lord, to promote its advancement."

Mr. Vernon then placed in the hands of the Archbishop, a copper case containing the Reports, which His Grace deposited in a cavity prepared for it in the stone, and covered it with a brass plate, bearing the following inscription:

THE · FIRST · STONE · OF · THE ·
YORKSHIRE · MUSEUM ·
LAID · ON · THE ·
TWENTY · FOURTH · DAY · OF · OCTOBER ·
IN · THE · YEAR · OF · OUR · LORD ·
M · DCCC · XX · VII ·
IN · THE · EIGHTH · YEAR · OF · THE · REIGN ·
OF · KING · GEORGE · THE · FOURTH ·
BY · EDWARD ·
LORD · ARCHBISHOP · OF · YORK ·
ON · PART · OF · THE · ANCIENT · SITE · OF ·
THE · ABBEY · OF · SAINT · MARY ·
GRANTED · BY · THE · CROWN · TO · THE ·
YORKSHIRE · PHILOSOPHICAL ·
SOCIETY ·
WILLIAM · WILKINS · R.A. F.S.A.
RICHARD · HEY · SHARP · ARCHITECTS ·

PRIVILEGES OF SUBSCRIBERS

TO THE

BUILDING FUND.

At a Special General Meeting of the Yorkshire Philosophical Society, held May 2nd, 1825,

Resolved—That the following Privileges be given to Contributors to the Building Fund, who are not Members of the Society :—

1. A Contribution of fifty Pounds and upwards, shall entitle the Contributor, for life, to personal admission to the Museum, with the power of introducing Visitors; and to personal admission to the Library, and to the scientific part of the General Meetings.

2. A Contribution of twenty-five Pounds and upwards, shall entitle to personal admission for life, to the Museum and Library, with the power of introducing Visitors to the Museum.

3. A Contribution of FIFTEEN Pounds and upwards, shall entitle to personal admission for life, to the Museum, with the power of introducing Visitors.

4. A Contribution of TEN Pounds shall entitle a Lady to personal admission for life, to the Museum, with the power of introducing Ladies as Visitors.

5. A Contributor of FIFTEEN Pounds and upwards, may, at any future time, on being duly balloted for, be admitted a Member of the Society, without payment of Admission Money.

SUBSCRIPTIONS TO THE BUILDING FUND.

	£.	s.
Agar, Benjamin, *Brockfield*	25	0
Alexander, Wm. and Son	10	10
Allen, Oswald	10	10
Atcheson, Henry, *London*	10	10
Atkinson, James	10	10
Atkinson, John B.	15	0
Backhouse, Thomas	10	10
Baines, H. J. *Bell Hall*	15	0
Barber, Cattle, and North	15	0
Barnes, Rev. Theophilus, *Castleford*	5	0
Barstow, Thomas, *Naburn*	15	0
Bathurst, Rev. W. H. *Barwick*	10	10
Beckwith, Stephen, M.D.	10	10
Beckwith, Francis, *London*	20	0
Belcombe, H. Stephens, M.D.	10	10
Bell, John	10	10
Bethell, Richard, *Rise.*	50	0
Blanchard, John	5	5
Bland, T. Davison, *Kippax*	25	0
Bland, J. *Ormside Lodge*	10	0
Bilton, William	10	10
Bower, Robert, jun. *Sutton Cottage*	25	0
Bower, Rev. J. W. *Welham*	15	0
Bower, G. H. *Welham*	15	0
Briggs, William, *Clifton*	15	0
Brooksbank, Miss, *Lilling Hall*	10	0
Brown, John F.	10	10
Bulmer, John	15	0
Bulmer, Rev. William	5	5
Burnell, Martin, *Copmanthorpe*	10	10

	£.	s.
Cattle, Mr. Sheriff	15	0
Carr, Matthew	10	10
Cayley, Sir George, Bart.	50	0
Cayley, E. S. *Wydale*	10	0
Chaloner, Robert, *Guisbro'*	50	0
Champney, George	10	10
Chivers, Thomas, *Askham*	21	0
Cholmeley, Francis, *Brandsby*	50	0
Cholmley, George, *Howsham*	50	0
Chorley, E. M.D. *Doncaster*	10	10
Clarkson, B. *Kirkham Abbey*	25	0
Cooke, Sir W. Bart.	25	0
Cooke, P. Davies, *Owston*	25	0
Copley, E. T. *Halnaby*	20	0
Copsie, F. J.	15	0
Cracroft, R. *Hackthorn, Lincolnsh.*	15	0
Creyke, Ralph, *Rawcliffe*	25	0
Croft, Harry, *Stillington*	25	0
Croft, Rev. R. *Rowley*	25	0
Crompton, Joshua, *Esholt.*	50	0
Crompton, Samuel, M.P.	30	0
Crompton, W. Rookes, *Sion Hill*	20	0
Crosse, John, *Hull*	5	5
Currer, Rev. D. R. *Clifton House*	25	0
Currer, Miss, *Eshton Hall*	25	0
Dallin, Rev. James	5	5
Dalton, John, *Sleningford*	50	0
Dalton, Richard	10	0
Danby, W. *Swinton Park*	50	0
——— second subscription	20	0

	£.	s.
Davies, Robert	5	5
Dealtry, Benj. *Lofthouse*	10	10
Denison, Robert, *Kilnwick Percy*	30	0
Denison, Robert, jun. *Elvington*	20	0
Dikes, W. H. *Hull*	5	5
Dixon, Rev. W. H. *Bishopthorpe*	25	0
Downe, Viscount	50	0
Drake, Rev. Dr. *Langton*	10	10
Drake, Richard *(deceased)*	10	10
Drury, G. V. *Rose Cottage*	10	10
Duffin, William	20	0
Duncombe, Hon. W. M.P.	30	0
Dundas, Lord	52	10
Dundas, Sir R. L. K.C.B.	50	0
Dunn, Mrs.	10	0
Edmonds, F. O. *Warmsworth*	25	0
Ellison, John	15	0
Ellison, Richard, jun. *Scarbro'*	21	0
——————— second Subs.	26	5
Etridge, Thomas	5	5
Eyre, Rev. Archdeacon	25	0
Fairfax, C. G. *Gilling Castle*	25	0
Fawkes, F. H. *Farnley*	50	0
Feversham, Lord	100	0
Fitzwilliam, Earl	300	0
Flounders, Benjamin, *Yarm*	15	0
Flounders, Miss, *Yarm*	10	0
Fothergill, Elizabeth	10	10
Fox, Rev. T. L.	10	0
Frankland, Sir T. Bart.	10	0
Frost, Charles, *Hull*	5	0
Garforth, W. *Wiganthorpe*	50	0
Gascoigne, R. O. *Parlington*	50	0
Gastaldi, Charles	10	0
Goldie, George, M.D.	10	10

	£.	s.
Graham, Rev. John	10	10
Graham, Rev. J. B.	10	10
Graham, Hewley	15	0
Grantham, Lord	100	0
Gray, William	30	0
Gray, Jonathan	25	0
Gray, Rev. E. *Kirbymoorside*	15	0
Greame, John, *Sewerby*	25	0
Grimston, C. *Grimston Garth*	25	0
Hailstone, Samuel, *Croft House*	15	15
Hailstone, Rev. J. *Trumpington*	15	0
Hall, William	15	0
Hamerton, J. *Hellifield Peel*	5	0
Hargrove and Co.	5	5
Harland, W. C. *Sutton Hall*	25	0
Hartley, G. *Middleton Lodge*	25	0
Harwood, John	5	5
Hearon, W. H. Lord Mayor 1827	20	0
Henwood, Henry *(deceased)*	10	10
Higgins, Godfrey, *Skellow Grange*	25	0
Hildyard, J. B.	25	0
Hornby, R. W. B.	25	0
Hornor, Benjamin	10	10
Hotham, Lord	50	0
Howard, Hon. and Rev. Henry	20	0
Hudson, George	25	0
Hustler, John, *Undercliffe*	50	0
Hustler, John, jun. *Bradford*	21	0
Hutton, John, High Sheriff 1825	100	0
Hutton, John, *Sobergate*	25	0
Johnstone, Sir J. V. B. Bart.	50	0
Kendall, Rev. F. *Riccall*	5	0
Kenrick, Rev. J.	10	10
Kilvington, Rev. E. *Ripon*	20	0
Kirby, William	5	5

	£.	s.
Knight, H. G. *Firbeck Hall*	25	0
Langdale, Hon. Charles	25	0
Langley, Hon. M. high sheriff 1826	100	0
Lawley, Francis, M.P.	21	0
Lawrence, Mrs. *Studley Park*	50	0
Lawson, Andrew, *Aldborough*	20	0
Lawton, George	5	5
Leatham, J. A. *Heath*	15	0
Leatham, W. H. *Heath*	15	0
Lloyd, Colonel, *Kingthorpe*	25	0
Lloyd, George, *Acomb*	20	0
Lloyd, George, *Faceby Lodge*	20	0
Lowther, Sir John, Bart. M.P.	50	0
Macdonald, Lord	50	0
Markham, Rev. Archdeacon	50	0
Marshall, John, M.P.	50	0
Marshall, W. *Newton Kyme*	50	0
Maude, Francis, *Hatfield Hall*	10	10
Meynell, George	10	10
Middleton, Lord	100	0
Mills, Joshua	10	10
Milton, Viscount, M.P.	50	0
Monson, Hon. and Rev. Thomas	15	0
Murray, Lindley *(deceased)*	25	0
Norcliffe, Mrs. *Langton*	10	0
Norcliffe, Norcliffe, *Lotherton*	25	0
Oldfield, W. Lord Mayor 1825	50	0
Osbaldeston, Henry, *Hunmanby*	50	0
Osbaldeston, Miss, *Hunmanby*	50	0
Overton, Rev. John	15	0
Pemberton, John	25	0
Petre, Hon. Edward R.	52	10
Pickard, Rev. W. L.	10	10
Prest, Edward, *Heslington*	15	0
Prest, Henry *(deceased)*	15	0
Preston, Henry, *Moreby*	50	0
Pritchett, J. P.	5	5
Raikes, Robert, *Welton House*	25	0
Rayment, Rev. Benedict	15	0
Read, Rev. T. C. R. *Sand-Hutton*	25	0
Rishworth, James	25	0
Robinson, Henry	15	15
Russell, James	10	10
Russell, David	25	0
Salmond, William	10	10
Simpson, Thomas, M.D.	21	0
Sinclair, R. Recorder of York	20	0
Slingsby, Sir T. Bart.	50	0
Smith, Mr. Alderman	25	0
Smith, Miss M. W. *London*	15	0
Spencer, Isaac, jun. *Plantation*	10	10
Standish, Henry, *Doncaster*	15	0
Stanhope, Spencer, *Cannon Hall*	25	0
Stapleton, Miles, *Carlton*	25	0
Stapylton, Martin, *Myton*	50	0
Stourton, Lord	50	0
Stourton, Hon. Philip	25	0
Strickland, Eust.	10	10
Strickland, George, *Newton*	21	0
Strangwayes, E. S. *Alne*	10	10
Swann, Clough, and Co.	300	0
Sykes, Rev. Christopher, *Rooss*	10	10
Taylor, John	5	5
Taylor, Michael	10	10
Terry, John, *Hull*	5	0
Thompson, G. Lowther, M.P.	25	0
Thompson, R. J. *Kirby Hall*	50	0
Thompson, Rev. R. S. *Bilbrough*	10	10
Thompson, William	5	5
Thorpe, Anthony	25	0

	£.	s.
Todd, J. and G.	10	10
Tyrconnel, Earl of	21	0
Tuke, Daniel	21	0
Tuke, John	5	5
Tuke, Samuel	25	0
Turner, Rev. W. jun.	10	10
Tweedy, J. D.	21	0
Vansittart, Henry, *Kirkleatham*	50	0
Vavasour, Hon. Sir E. M. Bart.	25	0
Vavasour, Sir H. M. M. Bart.	25	0
Vernon, Rev. C. V. *Rothbury*	10	10
Vernon, Egerton V.	10	10
Vernon, Granville V. *Grove*	10	10
Vernon, Rev. L. V. *Stokesley*	20	0
Vernon, Rev. W. V. *Wheldrake*	50	0
Wake, Baldwin, M.D.	10	10
Wasse, J. M.D. *Moat Hall*	10	10
Wellbeloved, Rev. C.	10	10
Wentworth, John	25	0
Wharncliffe, Lord	50	0
Wharton, John T. *Aberford*	10	10
Whittell, J. F.	15	15
Wilberforce, William	21	0
Wilkinson, George, *Thorp-Arch*	15	0
Willoughby, Henry, M.P.	15	0
Wilson, James, M.P.	50	0
Wilson, Joseph B.	15	0
Wilson, M. *Eshton Hall*	25	0
Wilson, R. F. M.P.	50	0
Wilson, Thomas W.	15	0
Winn, Charles, *Nostell Priory*	50	0
Wolstenholme, John	5	5
Wood, Sir Francis L. Bart.	50	0
Wormald, Richard	15	0
Worsley, William, *Hovingham*	20	0
Wrangham, Rev. Archdeacon	10	10
Wright, William	5	5
Yarburgh, Henry, *Heslington*	50	0
Yarburgh, N. E. *Heslington*	25	0
York, Archbishop of	100	0
York, The Corporation of	200	0
York, Dean of	50	0
Yorke, John, *Bewerley*	25	0

TOTAL, *March 6th*, 1828.....£6591. 15*s*.

MEMOIRS AND COMMUNICATIONS

READ TO THE SOCIETY.

Feb. 6th, 1827.—On Capillary Attraction, by the Rev. J. B. Emmett, Hon. Mem. Y.P.S.

On Tumuli or "Twin-Barrows" in the parish of Thixendale, by the Rev. T. Rankin.

March 6th.—On the Chromo-Phosphate of Lead, by the Rev. W. V. Vernon, F.R.S. Pres. Y.P.S.

On the Construction of a Reservoir near Scarborough, on Geological principles, by William Smith, Civil Engineer, Hon. Mem. Y.P.S.

April 3rd.—On the Graduation of Thermometers, by Thomas Donkin, M.Y.P.S.

Oct. 2nd.—On the History of St. Mary's Abbey, York, by Eust. Strickland, M.Y.P.S.

A description of the manner in which the female of Sirex juvencus provides for the deposit of its eggs, by Thomas Allis.

Nov. 6th.—On the Geology of the Orkney Isles, by the Rev. C. Clouston, Minister of Stromness : *(communicated by Wm. Marshall, F.G.S.)*

Account of the discovery of a large Urn and human bones, in a barrow near Bishop-Burton, by Thomas Hull, M.D.

Jan. 1st. 1828.—On the Geology of the N. W. side of the Vale of Pickering, by John Phillips, F.G.S. Keeper of Mus. Y.P.S.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

1827.

February.

H. Witham, Esq.....	99 Additional specimens of overlying, secondary, and primary Rocks of Scotland.
Mr. J. Phillips.....	Fossil wood, from near Scarborough.
Rev. C. V. Vernon.....	Ball of Ironstone, containing organic bodies, from Northumberland.

March.

F. Cholmeley, Esq.....	Specimens from a well near Reading, containing Vivipara, Cyclas, Pectunculus brevirostris, &c.
Rev. W. Richardson.....	Mass of Coal and Carbonate of Lime from Whitehaven.
W. Marshall, Esq.....	11 Fossils.
Rev. W. V. Vernon, W. Marshall, Esq. G. Goldie, M.D.	Fossil Shells resembling Venus Islandica; and fossil wood, from Iceland.

April.

Rev. L. V. Vernon.....	Additional specimens from Roseberry Topping.
Mr. Wm. Gray, jun.....	Mass of fossil shells, corals, &c. from Dudley.

July.

Mr. R. Ripley.....	102 Fossils from the Alum Shale of Whitby, and the "Dogger beds" in Glazedale.
Mr. S. Woodward.....	17 Fossils from the Chalk of Norwich, and the diluvium of Palling, Norfolk.
W. Marshall, Esq.....	28 Volcanic Rocks from Vesuvius.
Rev. J. Chaloner.....	Producta gigantea.
J. C. Powell, Esq.....	Lepidodendron.
Rev. C. V. Vernon.....	7 Specimens from the Mountain Limestone series of Northumberland, containing a remarkable species of Fossil wood.
J. S. Crompton, Esq.....	Fossil Crab (*Portunus ?*) from Gibel Mokattam, near Cairo.
R. I. Murchison, Esq.....	Cast of the upper part of the femur of a gigantic fossil Saurian, found in Sussex.
Rev. W. V. Vernon.....	Specimens from the junction of Chalk & Marlstone, near Market-Weighton.
Rev. T. Rankin.....	Radius and Ulna of Ox, from a gravel-pit at Middleton on the Wolds.
Mr. J. Phillips.....	2 Fossil Caryophylliæ.

October.

Sir J. V. B. Johnstone, Bart.	Specimens from Switzerland.
Mr. Sheriff Barber.....	24 Rock specimens from Scotland.
Lieut. Gen. Sharpe, (*by W. Marshall, Esq.*)	Fossils from Dumfries-shire.
Mr. J. Phillips.....	Astræa Lithostrotion from Moughton Scar, and 5 other Fossils.

Mr. Otley, (*by Mr. Phillips*)	Piece of rock containing Garnets, from Cumberland.
Mr. Bean.....	31 Fossil Plants found near Scarborough.
W. Marshall, Esq.....	Fossils from near Thirsk.
Capt. O. V. Vernon.....	73 Rocks and Fossils from the West Indies, including fossil shells from Barbuda, agatized corals and wood from Antigua.
Rev. W. V. Vernon.....	Bones of a Saurian Animal from Whitby, and other specimens from various localities.
Mrs. G. Bulmer.....	Portion of a jointed fossil plant? from the diluvium of the Yorkshire coast.
Purchased.....	5 Fossils from Whitby.

November.

C. Preston, Esq.....	7 Fossil Plants, &c. Scarborough.
Rev. C. Clouston.....	26 Specimens illustrative of the Geology of the Orkneys.
Rev. W. Bulmer.....	2 Specimens of Magnesian Limestone.
Mr. J. Bleckly.....	Pecten from the diluvium of the Terrace cliff, Scarborough.
Rev. S. Sharp.....	Alcyonium from near Hertford.
John Bland, Esq.....	10 Geological specimens.
Rev. L. V. Vernon.....	Fossils from near Stokesley.
Purchased by the Council.	104 Fossils from the Kimmeridge clay, Kelloways, Cornbrash, and Inferior oolite of the Yorkshire coast.

December.

Rev. C. V. Vernon.....	5 Fossil Plants, &c. Northumberland.
Rev. S. Sharp.....	Alcyonium and Producta.
Rev. J. Graham.....	Pyritous Slate, Newfoundland.

Miss Cattley.....	3 Vesuvian specimens.

1828.

January.

W. Salmond, Esq.....	Crania of Stag and Monkey, from the excavations at York Castle.
Mr. R. Ripley.....	3 Fossils.
Rev. W. Richardson.....	Fossil wood, from the Gypsum of Fairburn.
Miss Atkinson.....	5 Fossils from Weymouth and Portland.
Directors of the Museum at Prague, *(by E. V. Vernon, Esq.)*	20 Specimens illustrative of the Geology of part of Bohemia.
Rev. S. Sharp.....	Gigantic Lepidodendron, from near Wakefield.

MINERALOGY.

1827.

February.

Rev. W. V. Vernon.....	Sulphuret of Nickel, Copper, and Iron; and Carbonate of Zinc and Manganese, from Keswick.

April.

Mr. W, Gray, jun.....	9 Minerals, principally from Scotland.
Rev. L. V. Vernon.....	Amethyst, and Carbonate of Lime crystallized, in geodes from the whinstone-dyke near Stokesley.

July.

Eust. Strickland, Esq.....	7 Minerals from Pately Bridge.

October.

Sir J. V. B. Johnstone, Bt.	12 Foreign Minerals.
Mr. Copsie.....	3 Minerals from Westmoreland.
Rev. E. Wood.....	11 Specimens of various oxides of Tin, and 4 other Minerals, from Cornwall.
Rev. L. V. Vernon.....	Chalcedony with Carbonate of Lime in a geode, from the whinstone-dyke at Stainton in Cleveland. Septarium.
Capt. O. V. Vernon, R.N.	Specimens of Carbonate of Copper, from South America.
Mr. Ollive Sims.....	32 Minerals from North America.

November.

Capt. O. V. Vernon, R.N.	Compact Bitumen from Trinidad.
J. Bland, Esq.....	Carbonate of Strontian from Pately.
Mrs. M. Dixon.....	4 English Minerals.
Rev. C. Clouston.....	3 Specimens from Labrador.

1828.

January.

Mr. Sandoz.....	4 English Minerals.
Rev. F. Kendall.....	Specimen of Cannel Coal.
Directors of the Museum at Prague, *(by E. V. Vernon, Esq.)*	7 Foreign Minerals.

ZOOLOGY.

MAMMALIA.

1827.

February.

W. Marshall, Esq.....	Ornithorhynchus paradoxus, m. & f. from New Holland.

March.

W. Wright, Esq.....	Skull of the Black Bear of North America, (*U. niger americanus.*)

April.

W. Wright, Esq.....	Skull of the Fox.

October.

Mr. T. Backhouse.....	Skeleton of Greyhound.
Mr. Bewlay.....	Skull and horns of Ram.
Mr. E. Rigge.....	Squirrel, (*Sciurus vulgaris.*)
Mr. G. Sawyer.....	Portions of the aorta and heart of the Whale, (*Physeter macrocephalus*) cast on the Holderness shore, 1825.
Anonymous.....	Long-eared Bat, (*Vespertilio auritus.*)

November.

Capt. O. Vernon.....	Ant-bear, (*Myrmecophaga jubata*) from South America.

BIRDS.

1827.

February.

Mr. T. Backhouse.....	Little Auk, (*Alca alle.*)
Mr. J. Mellor.....	North American Chatterer, (*Ampelis carolinensis*) f.
Lieut. C. Strickland.....	Canadian Grouse. Canadian Dove.
Capt. Gossip.....	Golden-eye Duck, (*Anas clangula*) f.

March.

Archbishop of York.....	Two pied Pheasants.
Lieut. C. Strickland.....	Canadian Snipe. Canadian Woodcock. Canadian Woodpecker.
E. Strickland, Esq.....	Barnacle Goose, (*Anas erythropus.*)
Rev. C. Johnstone.....	Widgeon, (*Anas Penelope.*) Scaup duck, (*Anas Marila*) m. Black & white Dobchick, (*Podiceps nigricans.*)

April.

Lawrence Edmonstone, Esq.	Iceland Gull, (*Larus islandicus*) m. & f. Immer Diver, (*Colymbus Immer*) m. & f. Black & white Dobchick, (*Podiceps nigricans*) m. & f.—all from Zetland.
Dr. Goldie.....	Long-eared Owl, (*Strix Otus.*)
Arthur Strickland, Esq....	Red-legged Crow, (*Corvus graculus.*)
E. Strickland, Esq.....	Shoveller Duck, (*Anas clypeatus*) m. & f.

July.

E. Strickland, Esq.....	Ash-coloured Harrier, (*Falco cinereus*) m. & f. Black-chin Grebe, (*Podiceps nigricollis*) m. & f.
Mr. W. Gray, jun.....	Hen Harrier, (*Falco cyaneus*) m. Common Gull, (*Larus canus.*) Tern, (*Sterna Hirundo.*) Water Ouzel, (*Cinclus aquaticus.*)
Mr. H. Chapman.....	Puffin, (*Alca arctica.*)

October.

Mr. E. Rigge.....	Owl, from S. America. Common Tern, (*Sterna Hirundo.*) Razor-bill, (*Alca torda.*)
W. Marshall, Esq.....	5 Young Kingfishers, (*Alcedo hispida.*) 5 Eggs of Ditto.
Mr. W. Gray, jun.....	Oriole, (*Oriolus galbula.*) Goatsucker, (*Caprimulgus europæus.*) Raven, (*Corvus corax.*)
E. Strickland, Esq.....	Scoter Duck, (*Anas nigra*) m. Avoset, (*Recurvirostra avosetta.*)

December.

Mr. Joseph Backhouse....	Trachea and Sternum of Wild Swan.
Rev. W. V. Vernon.....	Long tailed Manakin, (*Pipra caudata*) and Humming-bird, both from America.
Zoological Fund.....	Short eared Owl, (*Strix brachyotos*) m. & f. Black Tern, (*Sterna fissipes*) m. & f. Scoter Duck, (*Anas nigra*) f. Ringed-Plover, (*Charadrius hiaticula*)

Zoological Fund *	Brent Goose, (*Anas Bernicla.*) Cormorant, (*Pelicanus carbo.*) Long tailed Duck, (*Anas glacialis*) f. Lesser Guillemot, (*Uria minor.*)

1828.

January.

N. E. Strickland, Esq....	Pied Flycatcher, m. f. and young bird, (*Muscicapa atricapilla.*)
C. Gastaldi, Esq.....	Dun diver, (*Mergus Merganser* or *Castor.*)

REPTILES.

1827.

October.

G. Champney, Esq.....	Skeleton of the Hawksbill Turtle, (*Testudo imbricata, Linn.*)
Capt. O. V. Vernon, R.N.	Young Alligator, (*Crocodilus Lucius.*) 1 Lizard of the family Lacertidæ, Cuv. 2 Lizards of the family Iguanidæ, Cuv. Amphisbæna fuliginosa, and 2 species of Coluber. Plate of Tortoise Shell.

November.

Captain O. V. Vernon....	2 Rattles of the Rattle Snake.
Mrs. M. Dixon.....	Cranium of the common Turtle, (*Testudo Mydas.*)
Mrs. Best.....	Testudo græca.

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* Subscribers: Rev. W. V. Vernon, James Atkinson, John Bell, Dr. Cayley, Francis Cholmeley, F. J. Copsie, Rev. W. H. Dixon, Wm. Gray, jun. Dr. Goldie, William Marshall, Eust. Strickland, Rev. C. Wellbeloved, William Wright. —Sir John Croft, donor of £3.

FISHES.

1827.

October.

Captain O. V. Vernon....	A flying Fish. Opah or Butterfly fish. A species of Squalus. 4 Jaws of Fishes. Diodon Hystrix.
Dr. Goldie.....	Angler Fish, (*Lophius piscatorius.*)

December.

Captain Dalton, Royal Artillery	The Bill Fish, (*Esox osseus, Linn.*) from Lake Ontario.

1828.

January.

Mr. S. Henwood.....	Jaws of Squalus carcharias.

MOLLUSCA. (Cuvier.)

1827.

October.

Capt. O. V. Vernon.....	Various Specimens of the Tree Oyster, (*Ostrea parasitica.*)
Mrs. M. Dixon.....	200 Foreign Shells, including Tellina lingua felis, Cytherea erycina, Venus papilionacea, Bulla naucum (var.) Natica canrena, Murex haustellum, Turbinella cornigera, Cypræa ocellata, Conus virgo, &c. &c.

November.

J. Bland, Esq.....	3 Foreign Shells.
Miss Backhouse.....	6 Species of British Shells.

December.

Mr. Davies.....	6 Shells.
Rev. W. V. Vernon.....	Meleagrina margaritifera.

CRUSTACEA.

1827.

April.

Leeds Lit. and Phil. Soc..	2 Specimens of Portunus pelagicus, *Linn.* and one of Gelasima Maracoani, *Latr.* from Brazil.

October.

Hon. & Rev. H. Howard..	Lithodes Squinado from Worthing.

November.

Mr. James Backhouse....	2 Specimens of Galathea strigosa from Scarborough.

ARACHNIDA.

1827.

February.

Rev. C. Wellbeloved.....	2 specimens of Scorpio afer.

November.

Mr. Bewlay.....	Aranea Diadema.

MYRIAPODA.

October.

Capt. O. V. Vernon.....	3 Centipedes (*Scolopendra morsitans*) An Iulus.

INSECTA.

1827.

April.

Mr. J. Phillips.....	3 specimens of Typhœus vulgaris.
Mr. H. Denny.....	Pair of Omaseus aterrimus.

July.

Rev. James Dalton.....	1544 British Insects, viz. (according to the Linnæan orders) 1415 Coleoptera 22 Hemiptera 8 Lepidoptera 2 Neuroptera 91 Hymenoptera 6 Diptera.

October.

Mr. Edward Rigge.....	Libellula depressa, m. & f.
Capt. O. V. Vernon.....	9 Foreign Insects, including Scarabæus Actæon, Buprestis gigas, &c.
Mr. Thomas Allis.....	Urocerus Juvencus, f.

November.

Capt. O. V. Vernon.....	5 foreign Insects.
Mr. J. Phillips.....	58 British Insects, including Brepha notha and Coccinella ocellata.
Mr. W. C. Hewitson.....	3 foreign Beetles.

ANNULOSA & VERMES.

1827.

February.

W. Wright, Esq.....	Ascaris Equi.

Mr. A. Coates..... 2 Tæniæ.

March.

Mr. T. Backhouse..... 6 specimens of Amphitrite auricoma.

RADIARIA, (Lamarck.)

July.

Mr. R. Ripley..... 3 Echinida.

Mr. J. Phillips..... Echinus esculentus.

J. Bland, Esq..... Echinus esculentus.

October.

Capt. O. V. Vernon..... Scutella sexforis.

December.

Mr. Robert Davies..... Echinus, from the West Indies.

ZOOPHYTA.

1827.

February.

Miss H. H. Roddam..... 34 Corallines from the Yorkshire coast.

October.

Capt. O. V. Vernon..... 20 Corals from the West Indies, including Meandrinæ, Madreporæ, Astrææ, Oculinæ, and Milleporæ.

BOTANY.

1827.

February.

Miss H. H. Roddam.....	16 Sea weeds, from the Yorkshire coast.
Mr. Holden.....	A large Bamboo.

April.

Rev. W. Scoresby.....	25 Dried Plants from Greenland.
Mr. Newton.....	Monstrosity of the Spruce Fir.

July.

W. Middleton, Esq.....	Herbarium of British and Swiss Plants, collected by himself, containing 1800 specimens.
Rev. James Dalton.....	Herbarium of British Plants, collected by himself, containing 2300 specimens.

October.

Rev. T. C. R. Read....	Conferva ægogropila, from the lakes near Shiffnal.
Capt. O. V. Vernon.....	Leaves and Fruits from the West Indies.

November.

Rev. C. Clouston.....	19 Sea weeds from the Orkneys.

ANTIQUITIES.

I. COINS AND MEDALS.

1827.

February.

Rev. J. Serjeantson *(by the Rev. W. H. Dixon)*	5 Roman Coins, *æ. mag.*
Mr. W. Gray, jun.....	7 Medals in bronze. M. Aurelius, *æ.*

April.

Rev. W. H. Dixon.....	Edward I. *silver.*
Rev. Archdeacon Eyre...	Elizabeth, *silver.*

October.

Miss Pierse *(by W. Salmond, Esq.)*	11 Medals. Jewish Shekel. Legend in Chaldæan letters. Otho, *æ. mag.* Augustus, *æ. mag.* 47 other coins. 2 half Dies.

November.

Mr. Turner (Whitby)....	2 Arracan Rupees.
John Bland, Esq.....	8 Netherland Coins, 1818—1827. 3 Prussian Coins, 1826. Manks Penny. Gibraltar token.
A Lady *(by the Rev. C. Wellbeloved)*	4 Roman Coins, *arg.* Medal of Maria Theresa, *silver.* 5 Foreign modern Coins, *silver.*
Mr. J. Bleckly.....	Coin of Archbishop Vigmund, found under the rampart adjoining Micklegate Bar.

Rev. W. V. Vernon.....	3 Roman Coins, *æ. min.* Styca of Aethelred. 4 English Coins, *silver.* 3 Nuremberg counters.

1828.

January.

Rev. W. V. Vernon.....	Vespasianus, *æ. mag.* 5 Roman Coins, *æ. min.* 15 English and other coins. 10 Nuremberg and other counters, dug up in the Minster Yard.
M. R. Ripley.....	Coin of Ptolemy Soter, *æ.* 3 Roman Coins, *æ. min.*

II. MISCELLANEOUS ANTIQUITIES.

Rev. J. Graham.....	Silver Bodkin, found in the excavations of the Manor Shore.
Lieut. Gen. Sharpe *(by W. Marshall, Esq.)*	A Celt.
Rev. W. V. Vernon.....	An antique brass Ring, found in the Minster Yard.
Mr. Davies.....	3 Deeds, of the 12th & 13th centuries.
Dr. Hull.....	A large Sepulchral Urn, with bones and bracelets, found in a tumulus near Bishop-Burton.
John Bland, Esq.....	A Roman Fibula, found near Brough, Westmoreland.

DONATIONS TO THE LIBRARY.

1827.

February.

Mr. Copsie.....	Howell's History of London, 4to. 1650.
H. Atcheson, Esq.....	Linnæan Transactions, vol. 10 & 11, 4to.
Dr. Goldie.....	Burmanni Flora Indica, 4to. Charas on Vipers, 12mo.
Mr. J. Phillips.....	Appendix to Lister's Historia Animalium Angliæ, 4to.
James Atkinson, Esq.....	Haller's Opera Minora, 3 vols. 4to.
Mr. J. Browne, (the Author)	Attempt to ascertain the age of the Porch of St. Margaret's Church, York, 4to.

March.

Mr. H. Denny, (the Author)	Monographia Pselaphidarum et Scydmænidarum Britanniæ, 8vo.

April.

Sheffield Lit. and Phil. Soc.	Reports of the Society for 1825 & 1826, 8vo.
W. Marshall, Esq.....	Paley's Natural Theology, 8vo. Paxton's Illustrations of Paley, 8vo.
Mr. Joseph Backhouse...	Thomson's History of the Royal Society, 4to.

July.

David Brewster, L.L.D. (the Author)	Thermometrical Observations at Leith Fort, 4to.

R. I. Murchison, Esq. (the Author)	Memoir on the Coal-field of Brora in Sutherlandshire, 4to.
Rev. W. Lund.....	Listeri Exercitatio Altera, &c. 8vo.
Whitby Lit. and Phil. Soc.	Fourth Annual Report of the Society.
Late Mr. Constable.....	Constable's Miscellany, 6 vols. 12mo.
Rev. Joseph Hunter.....	Annual Report of the Bath Institution.

October.

Messrs. J. & G. Todd....	Fox's Description of the Newcastle Museum, 8vo. Tunstall's Ornithologia Britannica, folio.
Mr. Wolstenholme.....	Spallanzani's Tracts on Natural History, by Dalzell, 2 vols. 8vo. Withering's Botany, 3 vols. 8vo. Baker's Natural History of the Polypus. Robson's British Flora, 8vo. Edmonstone's Zetland Islands, 2 vols. Cavallo on Magnetism, 8vo. Kepler's Astronomical Discoveries, 8vo. White's Voyage to New South Wales.
Mr. Adamson (the Author)	Memoirs of Camoens, 2 vols. 8vo.
Antiquarian Soc. Newcastle	Archæologia Æliana, vol ii. part 1.
Leeds Lit. and Phil. Soc.	Report of the Society for 1826.

November.

Dr. Beckwith.....	Ray's Travels, 8vo. 1637.
John Dalton, Esq. (the Author)	Chemical Philosophy, vol. ii. part 1.
John Bland, Esq.....	Merrey on the Coinage of England, 8vo. Leake's Historical Account of English Money, 8vo.
Bristol Institution.....	Fourth Annual Report.

1828.

January.

Charles Frost, Esq. (the Author)	Notices of the early History of Hull, 4to.
Miss Atkinson.....	Observations on the Burning Cliff at Holworth, Dorset, 8vo.
Rev. W. H. Dixon.....	Sowerby's Genera of Shells, 29 numbers.
John Frost, Esq. (the Author)	Oration before the Medico-Botanical Society, 4to.
Professor Griscom.....	Silliman's American Journal of Science, four recent numbers, 8vo.
Purchased by Subscription*	Audubon's Birds of America, Atlas folio, first four numbers, *to be continued.*

BOOKS PURCHASED.

Faraday on Chemical Manipulations, 8vo.
Philosophical Transactions for 1827, parts 1 & 2.
Transactions of the Geological Society, vol. II. part 2.

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